Stainless Steel Electric Boilers

Sussman SSB Boilers minimize contaminants because all-wetted metal parts are Stainless Steel. Whenever copper, iron or other materials cannot be tolerated in the steam and/or process, a Sussman SSB Stainless Steel Boiler is the product of choice for clean steam.

• All wetted metal parts are stainless steel.
• Passivation-Pressure Vessel per ASTM A-967-96

• NOTE: Water with a minimum of 1 meg ohm-cm specific resistivity must be used for proper & safe boiler operation.

Boiler Model No. Water Inlet Steam Outlet
SSB12-SSB18 1/2" NPT 1/2" NPT
SSB24-SSB72 1/2" NPT 1" NPT
SSB100 1/2" NPT 1-1/2" NPT
SSB135-SSB180 1/2" NPT 2" NPT

Stainless Steel Electric Steam Boilers

SSB Series
Lbs/Hr Sat. Steam: 36 to 543
KW Rating: 12 to 180
ASME Rating 100 PSIG
Operating PSIG Range 0-80 PSIG Max

Designed for:

• Pharmaceutical, Chemical Process, Sterilization, Food Processing, Cosmetics, Autoclaves and other clean steam.
• Series 304 stainless steel pressure vessel. Series 316/316L pressure vessel available - consult factory.
• Passivation of pressure vessels and fittings
• Built to ASME Boiler and Pressure Vessel Codes Sect. I UL and cUL Listed. National Board registered.
• Tested to rigid Q.C. Inspection Procedures.
**SSB-Standard Features**

- **LOW WATER CUT-OFF/LEVEL CONTROL** Float type automatically maintains proper water level for safe operation and shuts off the boiler when the water supply falls below a safe level. Auxiliary low-water cut-off supplied in addition to primary control as standard.

- **WATER LEVEL SIGHT GLASS** - Permits visual observation of water level while unit is in operation.

- **MAIN ON-OFF SWITCH** - Permits manual operation of boiler control circuit.

- **STEAM STOP-VALVE** - Ball valve; quick closing.

- **PILOT LIGHT** - Indicates boiler on/off condition.

- **INTEGRAL ELECTRICAL CONTROL** - Magnetic contactors for energizing boiler elements are integrally mounted in the control unit.

- **BLOWDOWN/DRAIN VALVES** - Permits easy blow-down and draining.

- **LONG LIFE HEATING ELEMENTS** - Industrial Grade heavy duty 0.420 inch diameter stainless steel sheath heating elements with one piece resistance welded terminations for added life and security.

- **OPERATING PRESSURE CONTROL** - Automatically maintains pre-set operating pressure within boiler.

- **RUGGED INDUSTRIAL CONSTRUCTION**

- **AUXILIARY LOW WATER CUTOFF**

- **PASSIVATION PER QQ-P-35 STANDARD**

- **NEMA 1 Louvered enclosure standard**

- **LINE PRESSURE WATER FEED** – used when incoming water pressure is at least 10 PSIG higher than operating pressure.

**Meeting Code Requirements**

- Built to ASME Section I for max 100 PSIG. Vessel National Board Registered. Code E certified

- Electrical construction conforms to NEC requirements.

- UL and cUL Listed.

**Safety Features**

- **STEAM SAFETY VALVE** - ASME Code Safety Valve automatically opens to reduce pressure.

- **STEAM PRESSURE GAUGE** - Allows visual observation of steam while unit is in operation.

- **MANUAL RESET PRESSURE CONTROL** - Provides high limit pressure cut-off with manual reset feature.

---

**SSB Electrical Steam Boiler**

<table>
<thead>
<tr>
<th>Boiler Model</th>
<th>KW</th>
<th>BHP</th>
<th>Lbs. Steam /Hr. #</th>
<th>3 Phase Voltage#</th>
<th>Total Amperage</th>
<th>Inches</th>
<th>Ship WL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSB-12*</td>
<td>12</td>
<td>1.22</td>
<td>36.2</td>
<td>208 240 480</td>
<td>34</td>
<td>29</td>
<td>20 28 36 260</td>
</tr>
<tr>
<td>SSB-18*</td>
<td>18</td>
<td>1.84</td>
<td>54.2</td>
<td>208 240 480</td>
<td>50</td>
<td>44</td>
<td>20 28 36 270</td>
</tr>
<tr>
<td>SSB-24*</td>
<td>24</td>
<td>2.45</td>
<td>72.3</td>
<td>208 240 480</td>
<td>67</td>
<td>58</td>
<td>27 33 45 330</td>
</tr>
<tr>
<td>SSB-30*</td>
<td>30</td>
<td>3.06</td>
<td>90.4</td>
<td>208 240 480</td>
<td>84</td>
<td>73</td>
<td>27 33 45 340</td>
</tr>
<tr>
<td>SSB-36*</td>
<td>36</td>
<td>3.67</td>
<td>108</td>
<td>208 240 480</td>
<td>100</td>
<td>87</td>
<td>27 33 45 350</td>
</tr>
<tr>
<td>SSB-48</td>
<td>48</td>
<td>4.89</td>
<td>145</td>
<td>208 240 480</td>
<td>128</td>
<td>111</td>
<td>27 33 45 365</td>
</tr>
<tr>
<td>SSB-60</td>
<td>60</td>
<td>6.12</td>
<td>181</td>
<td>208 240 480</td>
<td>167</td>
<td>145</td>
<td>27 33 45 410</td>
</tr>
<tr>
<td>SSB-72</td>
<td>72</td>
<td>7.35</td>
<td>217</td>
<td>208 240 480</td>
<td>200</td>
<td>174</td>
<td>27 33 45 420</td>
</tr>
<tr>
<td>SSB-100</td>
<td>100</td>
<td>11.0</td>
<td>325</td>
<td>208 240 480</td>
<td>284</td>
<td>246</td>
<td>28 34 59 675</td>
</tr>
<tr>
<td>SSB-135</td>
<td>144</td>
<td>14.6</td>
<td>433</td>
<td>208 240 480</td>
<td>400</td>
<td>347</td>
<td>30 36 61 785</td>
</tr>
<tr>
<td>SSB-160</td>
<td>158</td>
<td>16.1</td>
<td>475</td>
<td>240 480</td>
<td>379</td>
<td>190</td>
<td>30 36 61 785</td>
</tr>
<tr>
<td>SSB-180</td>
<td>180</td>
<td>18.4</td>
<td>542</td>
<td>240 480</td>
<td>434</td>
<td>217</td>
<td>30 36 61 790</td>
</tr>
</tbody>
</table>

* Single phase available  # Other voltages available: 380/415/600, 50Hz  ## With 50°F feedwater

**NOTES:**

- All wetted metal parts are stainless steel. Consult factory for specific wetted parts materials.

- Allow 21 inches for heating element removal. When ordering: Specify model number, kw, volts, phase and optional equipment.

- Minimum of 1 meg ohm-cm specific resistivity feed water must be used for proper & safe boiler operation.